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## (54) Management of OSI layer-3 data network entities

(57) An improved network management system and novel management solutions are provided for OSI Layer-3 data network managed entities such as data transport paths and routers are provided. The management solution provides for a concise and progressively detailed presentation of connectivity information related to OSI Layer-3 data network entities to expose OSI Layer-

2 and -1 provisioning equipment. Methods are provided for zeroing onto failed equipment using the progressively detailed presentation of connectivity information. Methods are further provided for interaction with OSI Layer-3 managed data transport entities to specify operating parameters. The advantages derived include an improved efficiency in the management, and troubleshooting thereof.

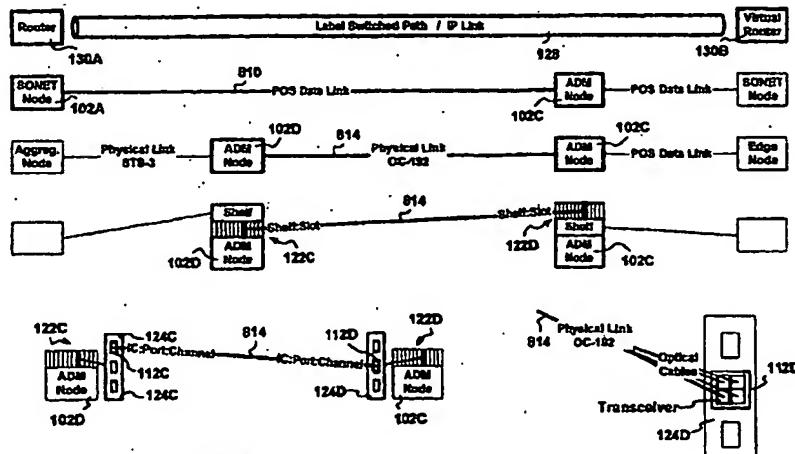


FIG. 8

EP 1 322 065 A3

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## EUROPEAN SEARCH REPORT

Application Number  
EP 02 29 3094

| DOCUMENTS CONSIDERED TO BE RELEVANT  |  |                   |   |
|--|--|-------------------|---|
| Category   | Citation of document with indication, where appropriate, of relevant passages  | Relevant to claim | CLASSIFICATION OF THE APPLICATION (Int.Cl.) |
| X  | US 6 115 393 A (ENGEL FERDINAND ET AL)<br>5 September 2000 (2000-09-05)<br>* column 1, line 19 - line 20; figures<br>18,19 *<br>* column 2, line 42 - line 62 *<br>* column 25, line 41 - line 47 *<br>* column 26, line 22 - line 29 *<br>----- | 1-12              | H04L12/24                                   |
| TECHNICAL FIELDS<br>SEARCHED (Int.Cl.)   |  |                   |   |
| H04L   |  |                   |   |
| The present search report has been drawn up for all claims   |  |                   |   |
| Place of search  | Date of completion of the search   | Examiner          |   |
| THE HAGUE  | 9 October 2003   | Bermudez, M.D.    |   |
| CATEGORY OF CITED DOCUMENTS  |  |                   |   |
| X : particularly relevant if taken alone<br>Y : particularly relevant if combined with another document of the same category<br>A : technological background<br>O : non-written disclosure<br>P : intermediate document  |  |                   |   |
| T : theory or principle underlying the invention<br>E : earlier patent document, but published on, or<br>after the filing date<br>D : document cited in the application<br>L : document cited for other reasons<br>& : member of the same patent family, corresponding<br>document |  |                   |   |

ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.

EP 02 29 3094

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09-10-2003

| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
|--|------------------|-------------------------|------------------|
| US 6115393 A                           | 05-09-2000 WO    | 9219054 A1              | 29-10-1992       |